

in the formation of the wall-like projections and the barrier ribs on one of the substrates on the rear or front side of the plasma display panel,
forming a first photosensitive material layer on a substrate;
disposing thereon a photolithographic mask having a pattern of the wall-like projections, followed by exposure;
without development, forming a second photosensitive material layer on the first photosensitive material layer;
disposing thereon a photolithographic mask having a pattern of the barrier ribs, followed by exposure and development of the first and second photosensitive material layers simultaneously, thereby producing a master having the wall-like projections and the barrier ribs formed on the substrate; and
producing a transfer mold using the master, filling a barrier rib material in concaves of the transfer mold and transferring the barrier rib material onto the substrate for the plasma display panel, or producing a pressing mold using the master, pressing a barrier rib material on the substrate for the plasma display panel, thereby forming the wall-like projections and the barrier ribs.

15. (ONCE AMENDED) A method of fabricating a plasma display panel provided with a pair of substrates disposed opposite each other to form a discharge space therebetween, a plurality of band-like barrier ribs arranged in parallel on one of the substrates on a rear or front side to partition the discharge space, and fluorescent layers provided in elongated grooves between the barrier ribs, the plasma display panel being characterized in that wall-like projections which are lower than the barrier ribs and high enough to increase a formation area of the fluorescent layers are provided in the elongated grooves between the barrier ribs and the fluorescent layers are formed in the grooves including the wall-like projections between the barrier ribs, the method, comprising:

in the formation of the wall-like projections and the barrier ribs on one of the substrates on the rear or front side of the plasma display panel,
forming a barrier rib pattern of a light-tight material on a light-transmissive substrate;
forming thereon a first photosensitive material layer;
disposing thereon a photolithographic mask having a pattern of the wall-like projections, followed by exposure;
without development, forming a second photosensitive material layer on the first

photosensitive material layer;

exposing the resulting substrate from a rear surface thereof, followed by developing, thereby producing a master having the wall-like projections and the barrier ribs formed on the substrate; and

producing a transfer mold using the master, filling a barrier rib material in concaves of the transfer mold, and transferring the barrier rib material onto the substrate for the plasma display panel, or

producing a pressing mold using the master and pressing a barrier rib material on the substrate for the plasma display panel,

thereby forming the wall-like projections and the barrier ribs.

B1
Cont
Sub
A

16. (ONCE AMENDED) A method of fabricating a plasma display panel provided with a pair of substrates disposed opposite each other to form a discharge space therebetween, a plurality of band-like barrier ribs arranged in parallel on one of the substrates on a rear or front side to partition the discharge space, and fluorescent layers provided in elongated grooves between the barrier ribs, the plasma display panel being characterized in that wall-like projections which are lower than the barrier ribs and high enough to increase a formation area of the fluorescent layers are provided in the elongated grooves between the barrier ribs and the fluorescent layers are formed in the grooves including the wall-like projections between the barrier ribs, the method comprising:

in the formation of the wall-like projections and the barrier ribs on one of the substrates on the rear or front side of the plasma display panel,

forming a convex of a sandblast-resistant material on the substrate;

thereafter forming a barrier rib material layer of good sandblastability on the entire substrate;

forming thereon a sandblast-resistant pattern using a photolithographic technique; and sandblasting the barrier rib material layer via the pattern,

thereby forming the wall-like projections and the barrier ribs.

17. (ONCE AMENDED) A method of fabricating a plasma display panel provided with a pair of substrates disposed opposite each other to form a discharge space therebetween, a plurality of band-like barrier ribs arranged in parallel on one of the substrates on a rear or front side to partition the discharge space, and fluorescent layers provided in elongated grooves

bl
[unclear]
Sub,
AS

between the barrier ribs, the plasma display panel being characterized in that wall-like projections which are lower than the barrier ribs and high enough to increase a formation area of the fluorescent layers are provided in the elongated grooves between the barrier ribs and the fluorescent layers are formed in the grooves including the wall-like projections between the barrier ribs, the method comprising:

in the formation of the wall-like projections and the barrier ribs on one of the substrates on the rear or front side of the plasma display panel,

forming first wall-like projections and second wall-like projections having the same height and crossing each other on the substrate, and

forming projections on either one of the first and second wall-like projections to the height of the barrier ribs,

thereby forming the wall-like projections and the barrier ribs.

18. (ONCE AMENDED) A method of fabricating a plasma display panel provided with a pair of substrates disposed opposite each other to form a discharge space therebetween, a plurality of band-like barrier ribs arranged in parallel on one of the substrates on a rear or front side to partition the discharge space, and fluorescent layers provided in elongated grooves between the barrier ribs, the plasma display panel being characterized in that wall-like projections which are lower than the barrier ribs and high enough to increase a formation area of the fluorescent layers are provided in the elongated grooves between the barrier ribs and the fluorescent layers are formed in the grooves including the wall-like projections between the barrier ribs, the method comprising:

in the formation of the wall-like projections and the barrier ribs on one of the substrates on the rear or front side of the plasma display panel,

forming a first photosensitive barrier rib material layer on the substrate;

disposing thereon a photolithographic mask having a pattern of the wall-like projections, followed by exposure;

without development, forming a second photosensitive barrier rib material layer on the first photosensitive barrier rib material layer; and

disposing thereon a photolithographic mask having a pattern of the barrier ribs, followed by exposure and development,

thereby forming the wall-like projections and the barrier ribs.

19. (ONCE AMENDED) A method of fabricating a plasma display panel provided with a pair of substrates disposed opposite each other to form a discharge space therebetween, a plurality of band-like barrier ribs arranged in parallel on one of the substrates on a rear or front side to partition the discharge space, and fluorescent layers provided in elongated grooves between the barrier ribs, the plasma display panel being characterized in that wall-like projections which are lower than the barrier ribs and high enough to increase a formation area of the fluorescent layers are provided in the elongated grooves between the barrier ribs and the fluorescent layers are formed in the grooves including the wall-like projections between the barrier ribs, the method comprising:

in the formation of the wall-like projections and the barrier ribs on one of the substrates on the rear or front side of the plasma display panel,

forming a pattern of the barrier ribs of a light-tight material on a light-transmissive substrate;

forming thereon a first photosensitive barrier rib material layer;

disposing thereon a photolithographic mask having a pattern of the wall-like projections, followed by exposure;

without development, forming a second photosensitive barrier rib material layer on the first photosensitive barrier rib material layer; and

performing exposure from a rear face of the substrate, followed development, thereby forming the wall-like projections and the barrier ribs.

20. (ONCE AMENDED) A method of fabricating a plasma display panel provided with a pair of substrates disposed opposite each other to form a discharge space between, a plurality of barrier ribs in stripes arranged in parallel on either one of the substrates to partition the discharge space, and wall-like projections lower than the barrier ribs provided in elongate grooves between the barrier ribs, characterized in that the projections are formed by a process comprising:

forming a projection material layer on one substrate;

forming thereon a masking pattern for the projections of a sandblast-resistant material;

forming thereon a barrier rib material layer;

forming thereon a masking pattern for the barrier ribs of a sandblast-resistant material;

and

forming the projections and the barrier ribs simultaneously by a single sandblasting

operation.

21. (ONCE AMENDED) A method of fabricating a plasma display panel provided with a pair of substrates disposed opposite each other to form a discharge space between, a plurality of barrier ribs in stripes arranged in parallel on either one of the substrates to partition the discharge space, and wall-like projections lower than the barrier ribs provided in elongate grooves between the barrier ribs, characterized in that the projections are formed by a process comprising: applying a projection material through a nozzle onto boundary areas between discharge cell areas in the elongate grooves between the barrier ribs on one substrate on which the barrier ribs are formed.

REMARKS

In accordance with the foregoing, claims 14-21 have been amended. Claims 1-13 have been cancelled without prejudice or disclaimer. Claims 14-22 are pending and under consideration.

Applicant respectfully submits that claims 14-21 have been amended merely to place them in proper independent form, and therefore this amendment does not narrow the pending claims within the meaning of *Festo Corporation v. Shoketsu Kinzoku Kogyo Kabushiki Co., Ltd* 56 USPQ2nd 1865, 234 F.3d 558 (Fed. Cir. 2000).

REJECTION UNDER 35 U.S.C. §102

Claims 1-4 and 7-22 are rejected under 35 U.S.C. §102(e) as being anticipated by Sano et al. This rejection is respectfully traversed for the reasons stated below.

Claims 1-4 and 7-13 have been canceled without prejudice or disclaimer, thus rendering the rejection of these claims moot.

Regarding the remaining claims rejected under 35 U.S.C. §102(e), Applicant respectfully submits that although Sano et al. discloses a surface discharge type plasma display panel with intersecting barrier ribs, this patent does not teach or suggest several of the processing operations as recited in independent claims 14-21 of Applicants' invention. For example, Sano et al. does not teach or suggest, among other things, "forming a first photosensitive material